DSpace software platform for digital repository of publications

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June 4 -11

Institutional repository

Containing articles, preprints and other materials reflecting and promoting JINR research activities.

Store and provide effective access to JINR information resources.

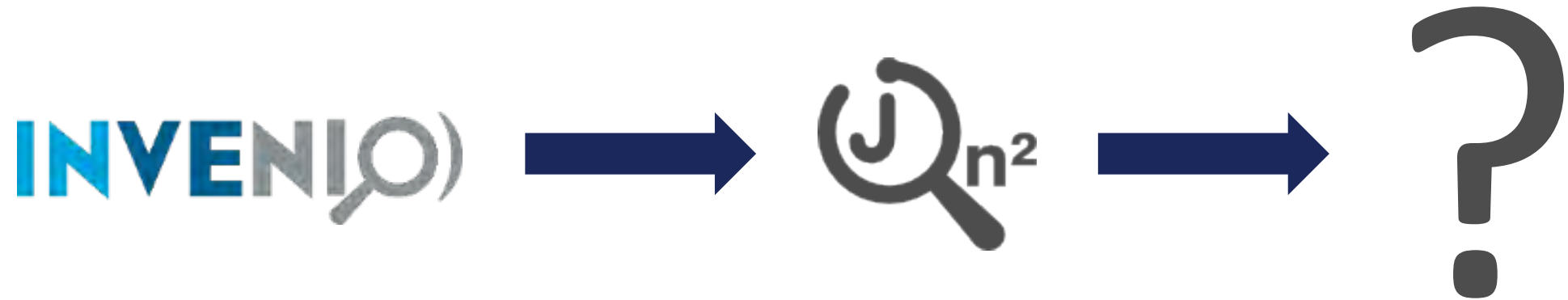Make scientific results available to all scientific and educational community.

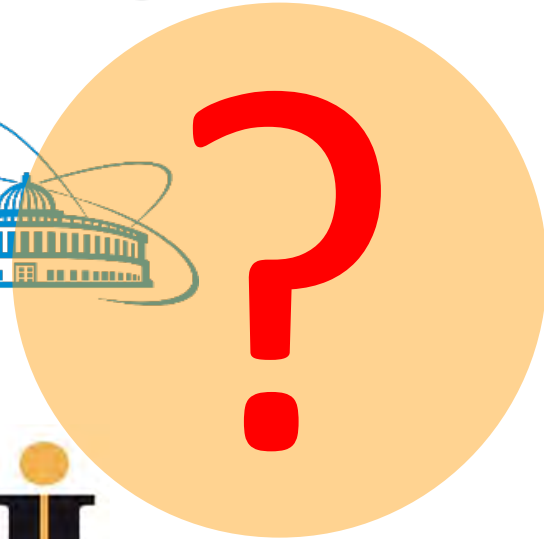To estimate the efficiency of the JINR scientific activity.
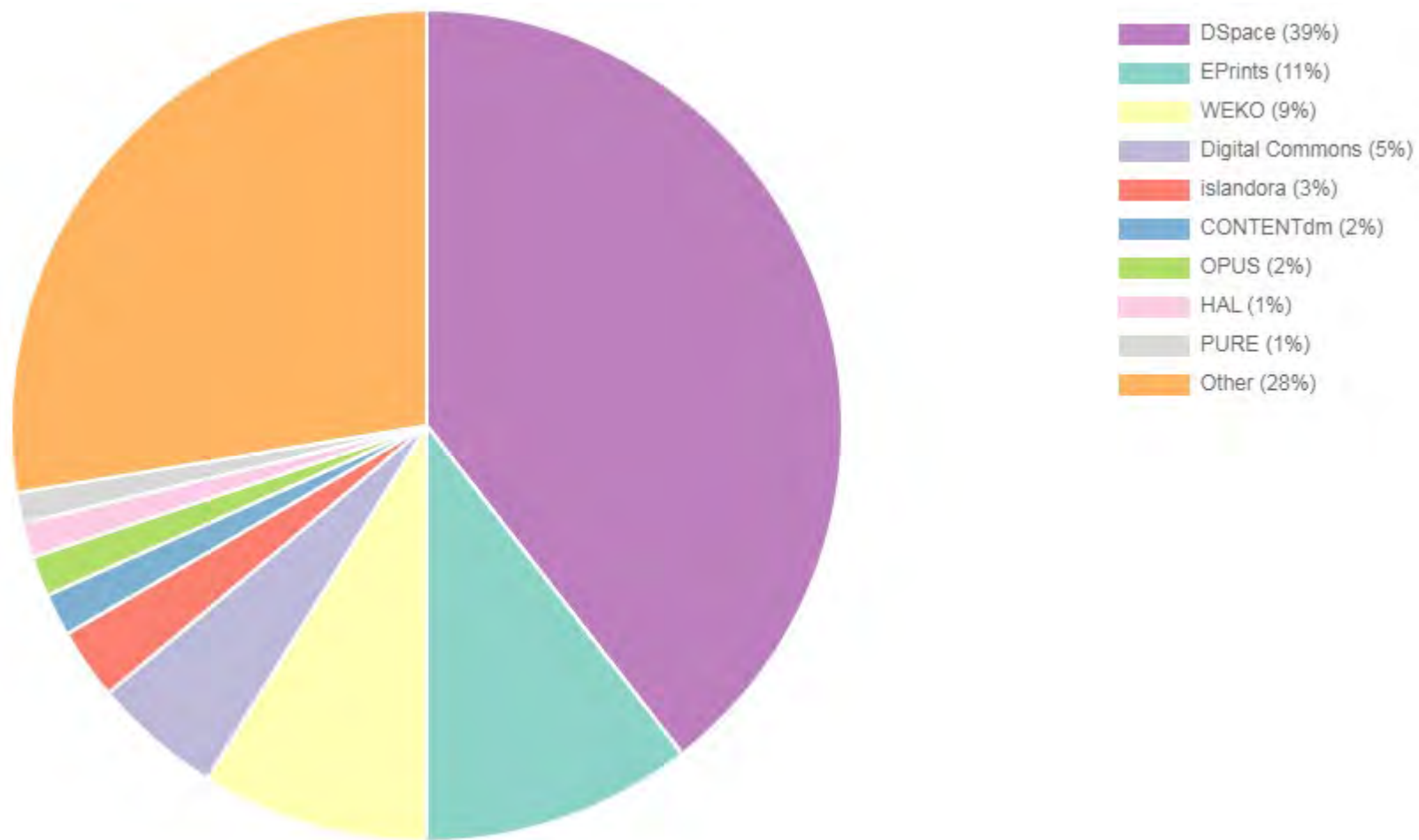
Part of scientific communication.

JINR Publications Repository

JOIN² Project Partners

Software Platform Overview

Legend:
- DSpace (39%)
- EPrints (11%)
- WEKO (9%)
- Digital Commons (5%)
- islandora (3%)
- CONTENTdm (2%)
- OPUS (2%)
- HAL (1%)
- PURE (1%)
- Other (28%)

Candidates for JINR Publications Repository

Characteristic	JDS-JOIN2 inside project	JDS-JOIN2 outside project	DSpace 7.4	INVENIO 3
Access policy management	+	+	+	+
Data import from popular identification systems: DOI, ISBN, identifiers arXiv, Medline, PubMed, INSPIRE	+	+/-	+	-
Multi-criteria search and viewing of digital resources of the repository by metadata and including full text	+	+	+	+
Collaboration authors entry (1000 or more)	+	+	?	+
Automatic duplicate tracking	+	+	?	?
Storage of OPEN ACCESS document	+	+	+	+
Control of entered Information	semi-automatic	semi-automatic	?	?
Open Source	+	+	+	+
Ready for implementation	+	+	+/-	-
Support	+	-	Big community	-
Further development	+	-	+	?
PIN integration	+	+	Looks promising	?
Updating vocabularies of persons and departments	+	+	+	?
Documentation	+/-	+/-	+	+/-
Modern engine	-	-	+	?
Good scalability	-	-	+	?

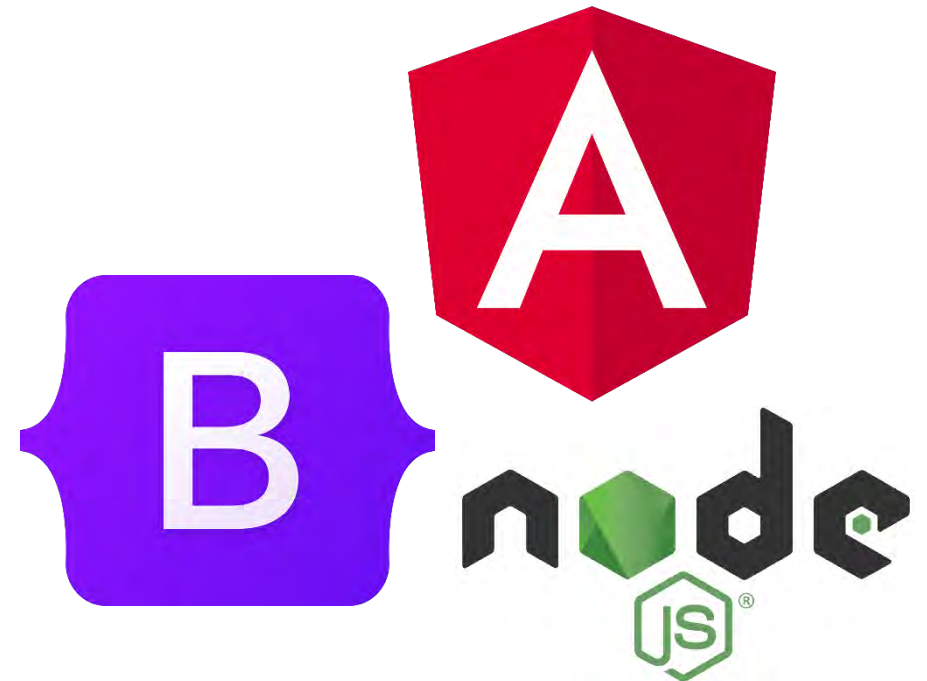# JINR Publications Repository Platforms

- ✓ Distributed system
- ✓ Good scalability
- ✓ Flexible backup system
- ✓ Flexible authorization system
- ✓ Good security
- ✓ Powerful and customizable UI
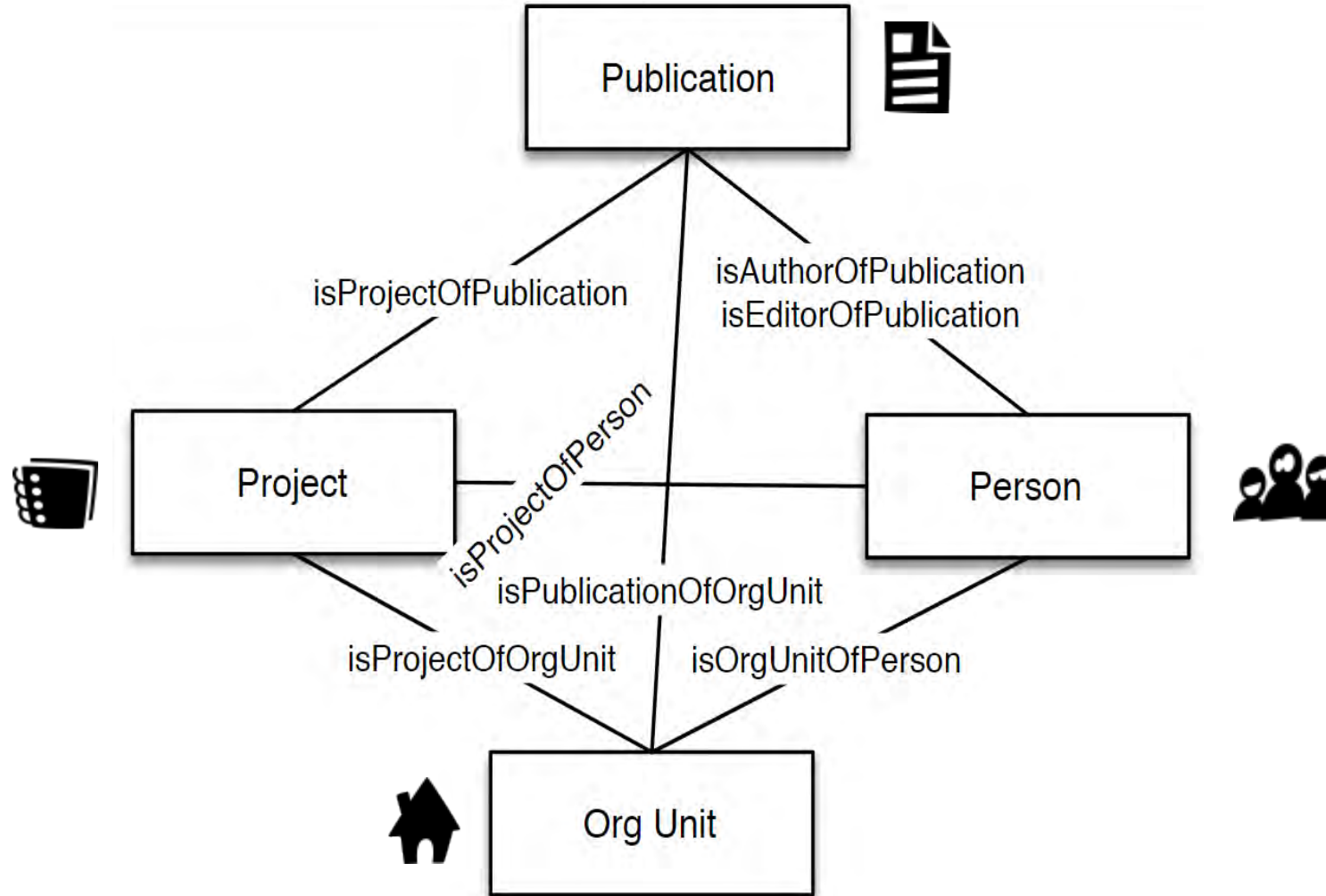- ✓ Big community

DSpace 7.4 Technology Stack
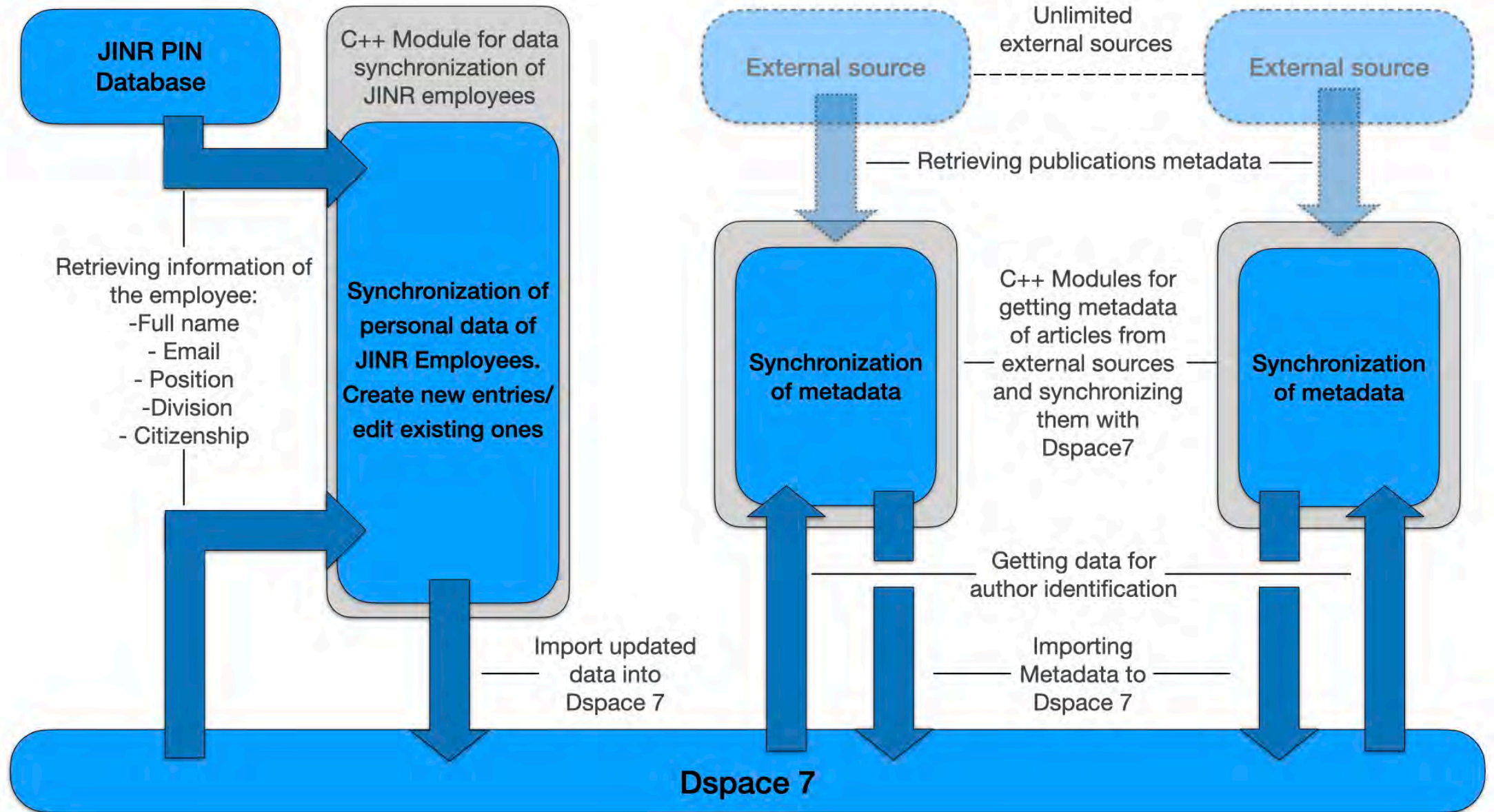
JINR Institutional Repository on the DSpace

- Easily login via SSO

- Search and browse publications by authors, organizational units, topics, projects, and more…

- Submit your own publications

- Harvesting of publications from external sources

Research Entities in DSpace 7

C++ modules for DSpace 7

General scheme of interaction between C++ modules and DSpace 7 by Kondratyev A.

C++ modules for DSpace 7

JINR PIN Database

C++ Module for data synchronization of JINR employees

Unlimited external sources

External source — — — — — — — — — External source

Retrieving publications metadata

Retrieving information of the employee:
-Full name
- Email
- Position
-Division
- Citizenship

Synchronization of personal data of JINR employees

C++ Modules for getting metadata

Synchronization of data

external sources and synchronizing them with Dspace7

Synchronization of metadata

+ method for moving items from one to another collections
users submissions -> main collections

Import updated data into Dspace 7

Getting data for author identification

Importing Metadata to Dspace 7

Dspace 7

General scheme of interaction between C++ modules and DSpace 7 by Kondratyev A.

C++ modules for DSpace 7

+ our own transliteration method

General scheme of interaction between C++ modules and DSpace 7 by Kondratyev A.

Publication View

Bibliographic information

Relationship link with OrgUnits

Relationship link with authors

Relationship link with Themes/Projects

Publication:
Prototype of the Russian Scientific Data Lake

Organizational Units

Organizational Unit
Лаборатория информационных технологий им. М.Г.Мещерякова
Основные направления деятельности Лаборатории информационных технологий (ЛИТ) связаны с обеспечением сетевыми, вычислительными и информационными ресурсами
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Date
2021

Authors
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Hide last 3

Abstract

The High Luminosity phase of the LHC, which aims for a tenfold increase in the luminosity of proton-proton collisions is expected to start operation in eight years. An unprecedented scientific data volume at the multiexabyte scale will be delivered to particle physics experiments at CERN. This amount of data has to be stored and the corresponding technology must ensure fast and reliable data delivery for processing by the scientific community all over the world. The present LHC computing model will not be able to provide the required infrastructure growth even taking into account the expected hardware evolution. To address this challenge the Data Lake R&D project has been launched by the DOMA community in the fall of 2019. State-of-the-art data handling technologies are under active development, and their current status for the Russian Scientific Data Lake prototype is presented here.

Collections
Publication

🛈 Full item page

DOI
10.1051/epjconf/202125102031

Journal Title
The European physical journal / Web of Conferences

Journal ISSN
2100-014X
2101-6275

Volume
251

Pages
02031

14

Person View

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Organizational Units

Organizational Unit
Лаборатория информационных технологий им.
М.Г.Мещерякова
Основные направления деятельности Лаборатории информационных технологий (ЛИТ) связаны с обеспечением сетевыми, вычислительными и информационными ресурсами, а также
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Name
Ирина Анатольевна Филозова

Translated Name
Filozova, Irina A.

Job Title
начальник группы

Full item page

→ Relationship link with OrgUnits

→ Country

→ Author's identifiers

→ Name Variants

→ Job Title

→ List of Publications

All of DSpace   Search the repository ...   🔍 Search

Search Results

Now showing 1 - 5 of 5

Filters

Author   +

Date   +

Has files   +

Item Type   +

🔄 Reset filters
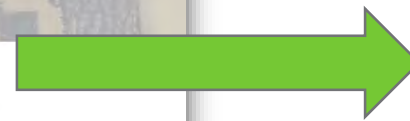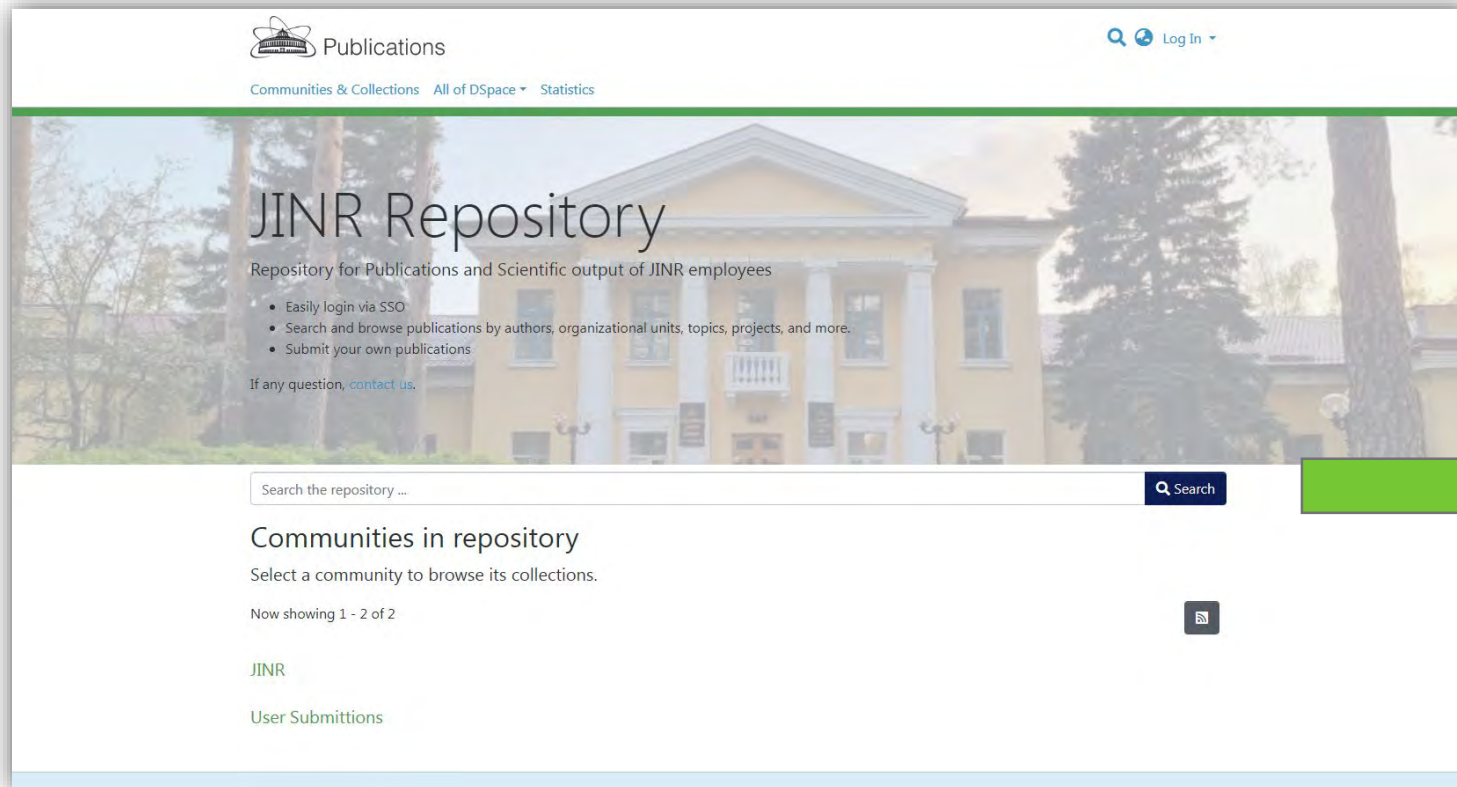
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Sort By

Publication
Publication test
(2023) Шестакова, Галина Васильевна; Иерусалимов, Александр Павлович; Лаборатория информ...
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Publication
Development of a Geometry Database and Related Services for the NICA Experiments
(2021) E. P. Akishina; E. I. Alexandrov; I. N. Alexandrov; I. A. Filozova; K. V. Gertsenberger; V. V. Ivanov; Фил...
This article presents the Geometry Information System (Geometry IS) developed in a configurable manner for use in all the NICA experiments. The general object model and the architecture of the Geometry Database (Geometry DB) are designed and described in detail. The information system contains Central (based on
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Publication
Configuration Information System for online processing and data monitoring in the NICA experi-

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Future Plans

Institutional Repository in frame of JINR Digital Eco System

Thank you for attention!